

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

American Warming and Ventilating (OH) 7301 International Drive Holland, OH 43528

Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model LE-32 6" Aluminum Louver System

APPROVAL DOCUMENT: Drawing No. 31604-6, titled "LE-32 Test Louver, Architectural & Non-Architectural Louver", sheets 1 through 7 of 7, dated 06/16/2000, with revision "C1", dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Bradner, OH, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 11-1117.11 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

MIAMI-DADE COUNTY
APPROVED

1 06/06/2013

NOA No. 13-0422.10 Expiration Date: July 27, 2018 Approval Date: June 13, 2013

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS "Submitted under NOA # 11-1117-11"

Drawing No. 31604-6, titled "LE-32 Test Louver, Architectural & Non-Architectural Louver", sheets 1 through 7 of 7, dated 06/16/2000, with revision "C1", dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS "Submitted under NOA # 08-1030.06"

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram, of "LE-22 4" Aluminum Louver", prepared by Hurricane Test Laboratory, Inc., Report No. **0198-0811-08**, dated 09/17/2008, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Wood anchors calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/10/2013, signed and sealed by Warren W. Schaefer, P.E.

"Submitted under NOA # 08-1030.06"

2. Revision calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/17/2008, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

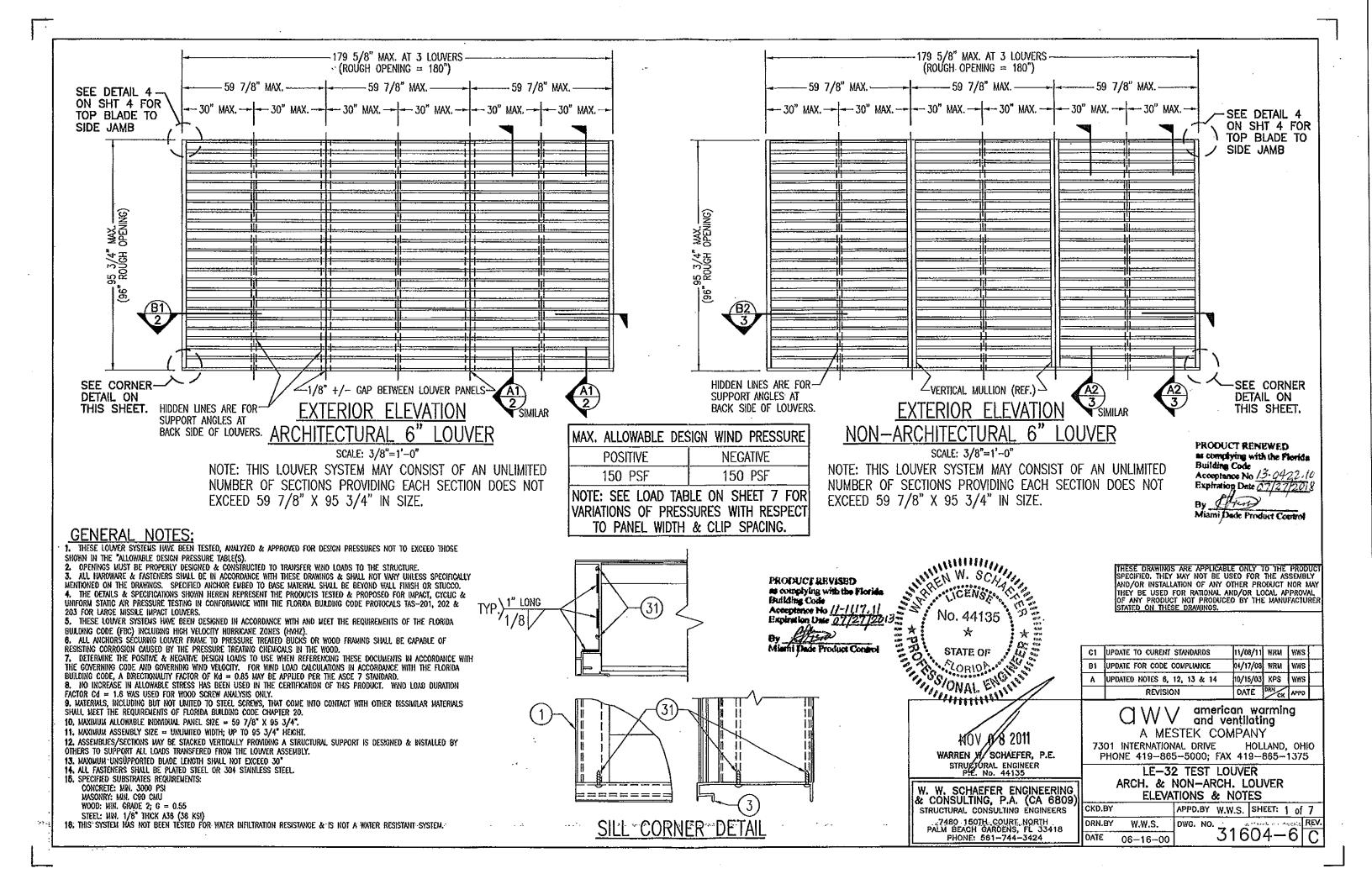
- 1. Statement letter of code conformance to 2010 FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 04/10/2013, signed and sealed by Warren W. Schaefer, P.E.
- 2. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A, dated 04/10/2013, signed and sealed by Warren W. Schaefer, P.E.

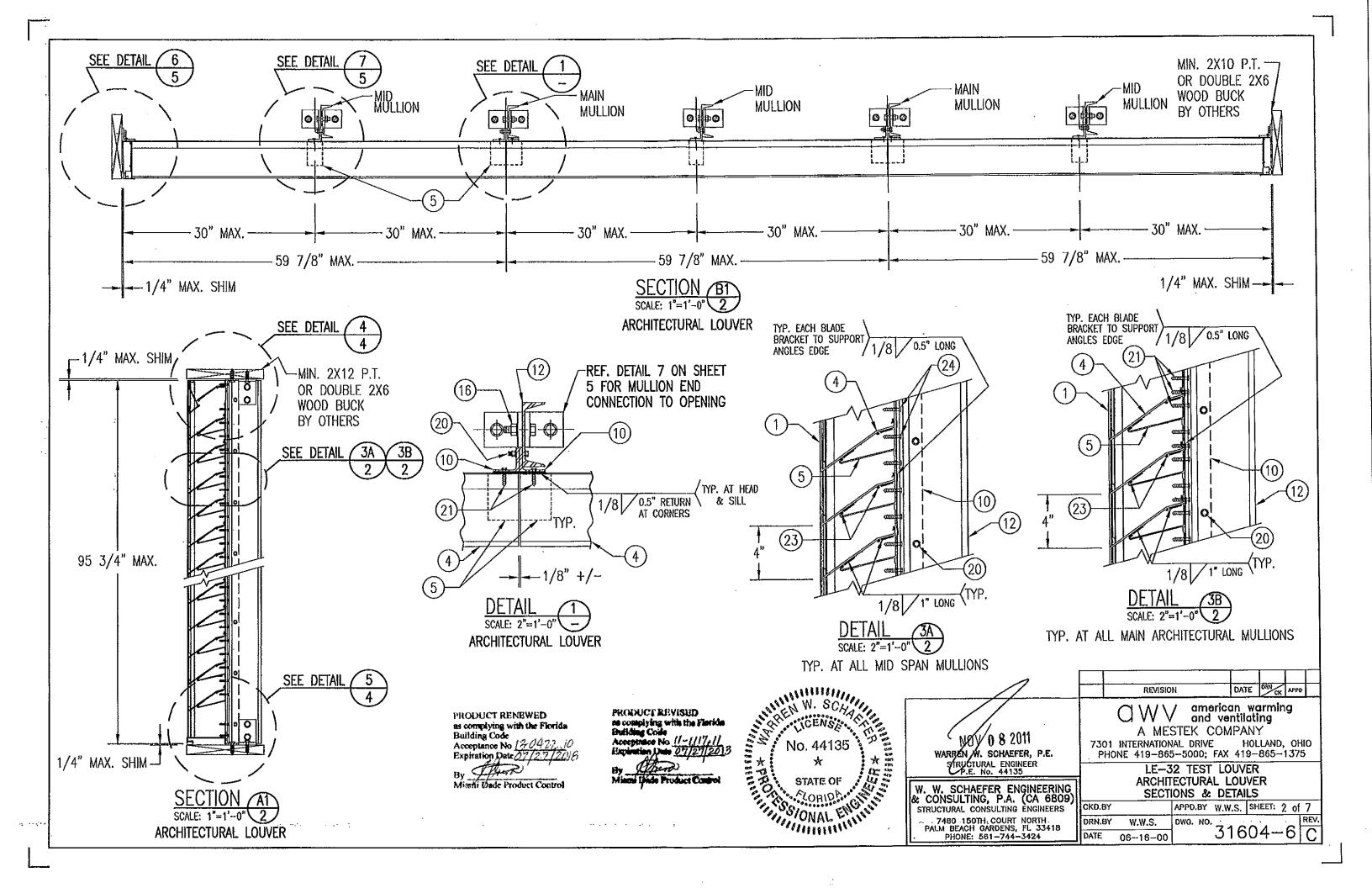
"Submitted under NOA # 08-1030.06"

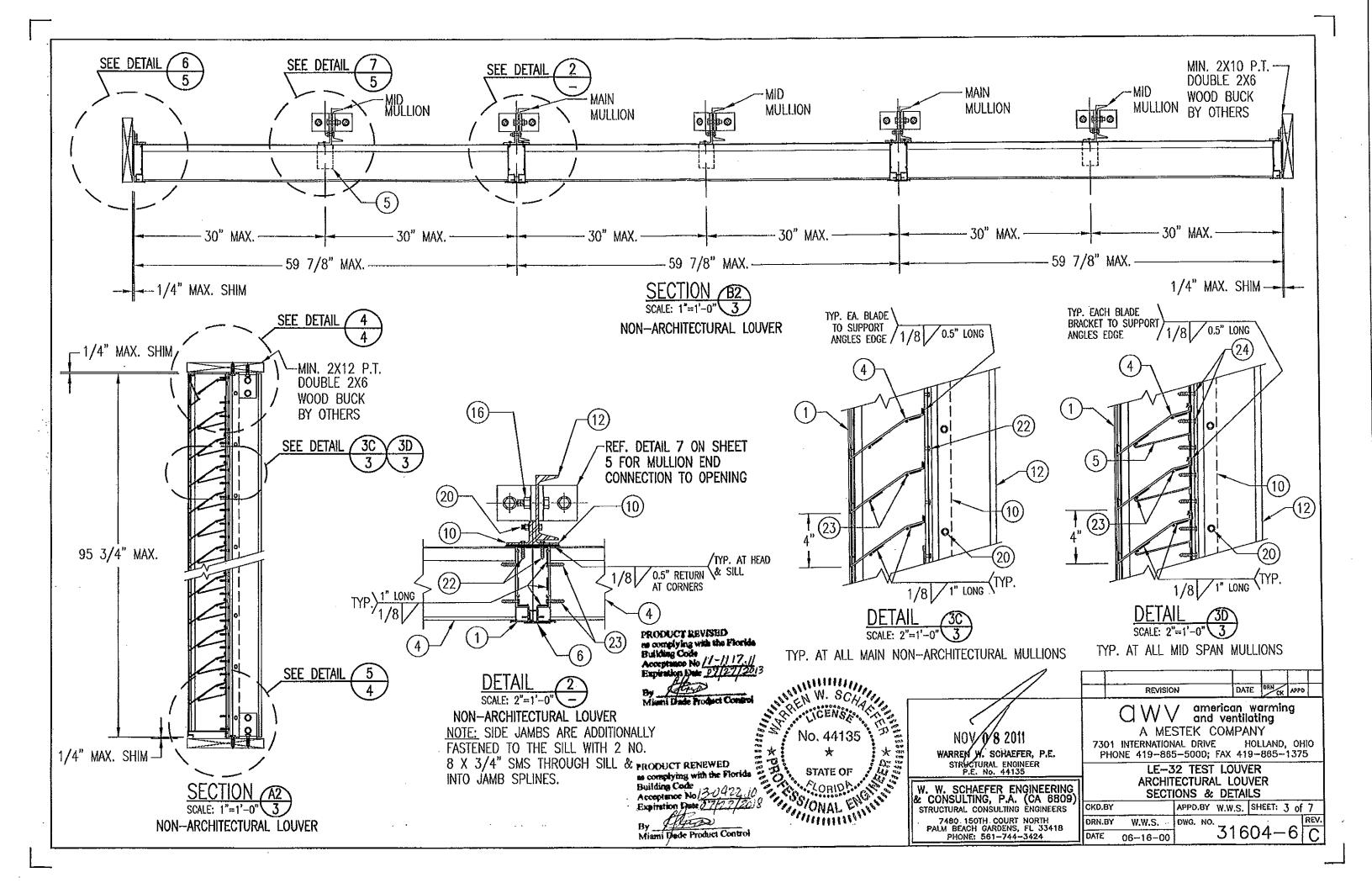
3. Test compliance letter issued by Hurricane Test Laboratory, Inc., dated 09/17/2008, signed and sealed by Vinu J. Abraham, P.E.

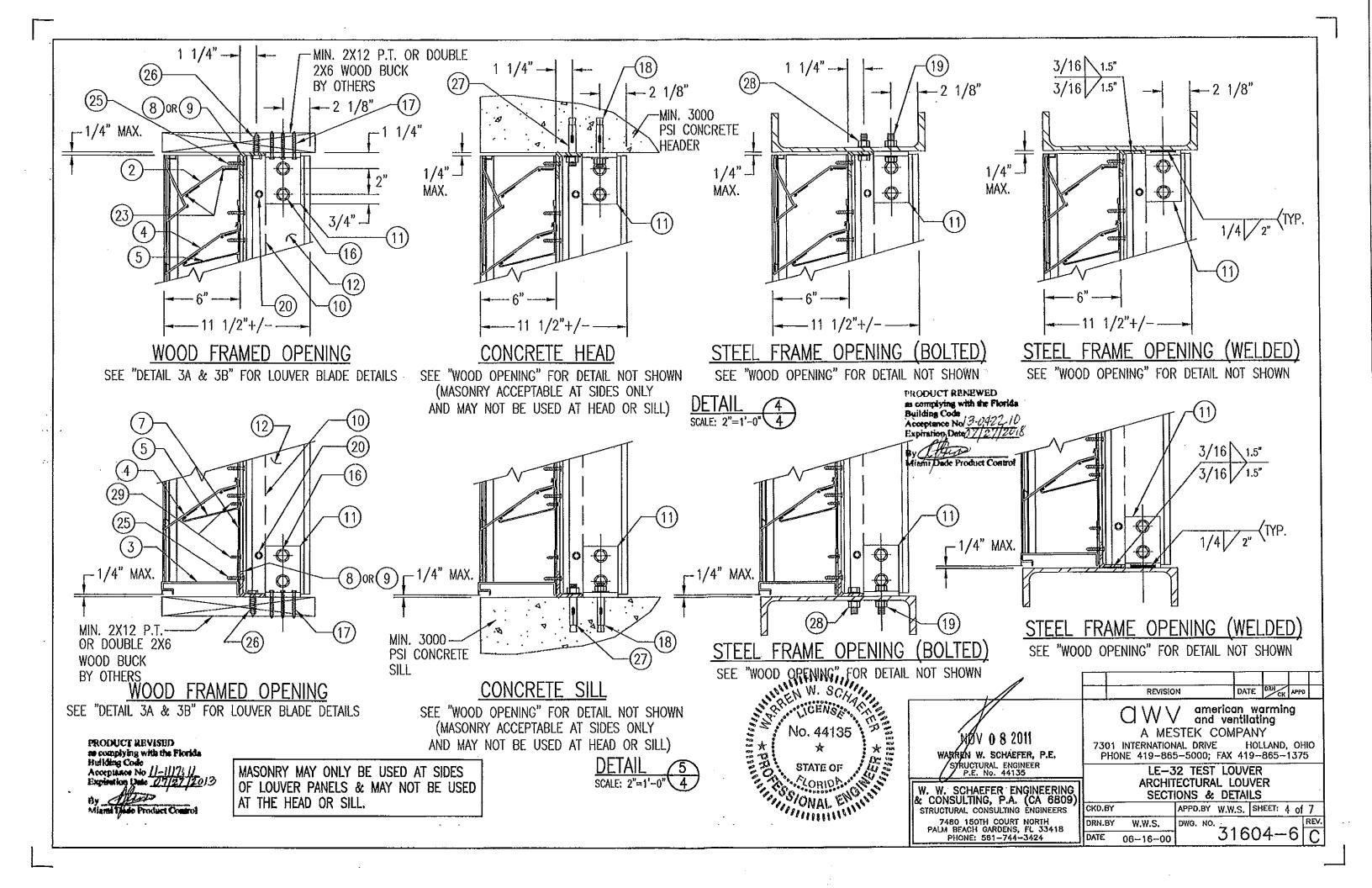
Carlos M. Utrera, P.E. Product Control Examiner NOA No. 13-0422.10

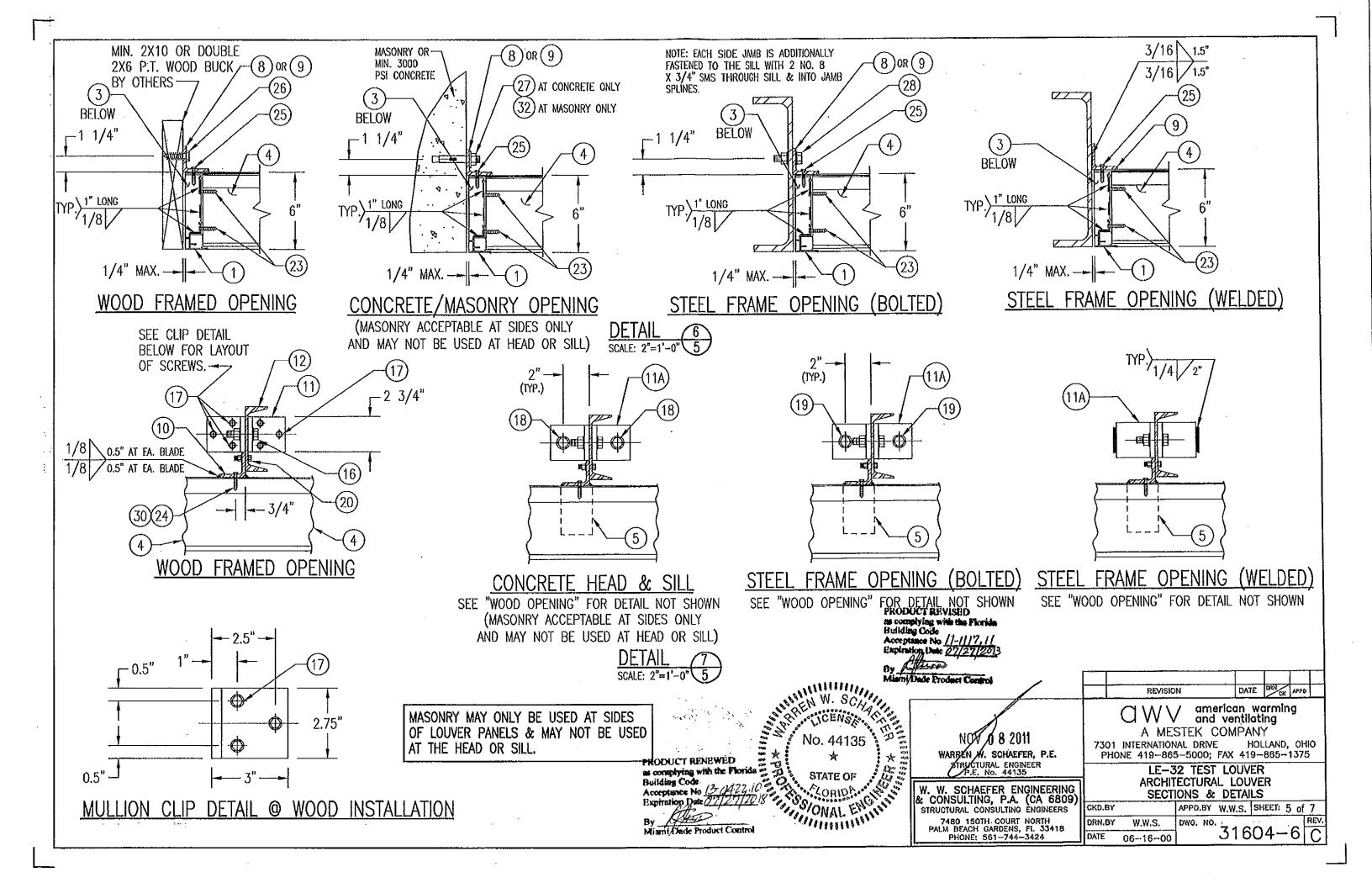
Expiration Date: July 27, 2018 Approval Date: June 13, 2013

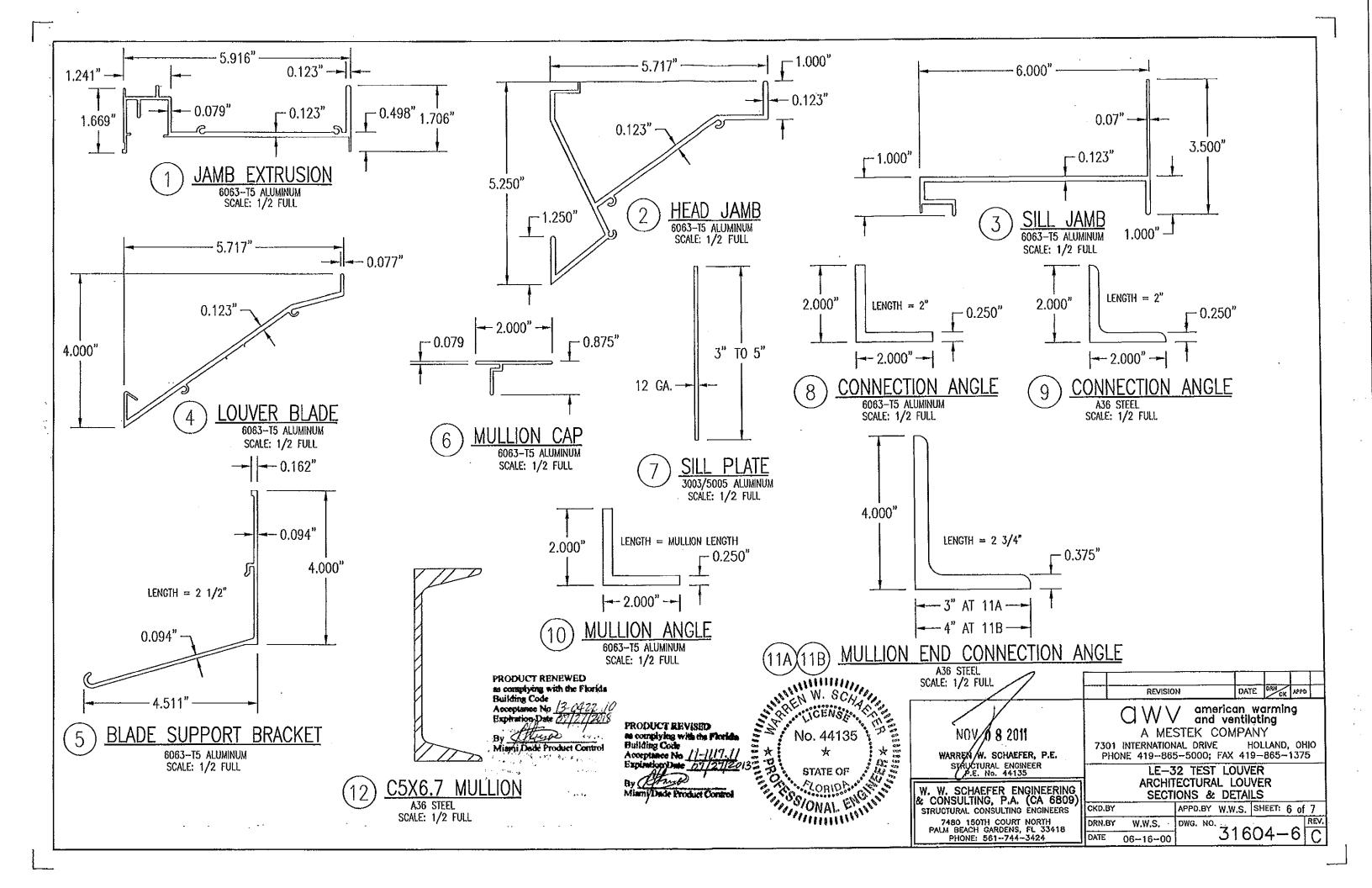












	AND	SSURE VS. JAMB C PANEL WIDTH	
PANEL WIDTH	CLIP SPACING	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE
(INCHES).	(INCHES)	WITH MID SPAN MULLION (PSF)	WITHOUT MID SPAN MULLION (PSF)
(mones).			<u> </u>
	8 12	150	150
16		150	150
10	16	150	140
	24	150	105
	8	150	70
		150	150
20	12	150	140
	16	150	112
	20	150	84
· · · · ·	24	150	56
	8	150	140
0.4	12	150	117
24	16	150	93
	20	150	70
 	24	125	47
	8	150	82
	12	150	68
28	16	150	54
	20	150	41
	24	107	27
	8	150	62
	12	150	52
30	16	150	41
	20	140	31
	24	93	-
	8	150	~
	12	150	_
36	16	150	-
	20	125	-
	24	83	
	8	150	-
	12	150	
42	16	142	-
	20	107	
	24	71	_
	8	150	
	12	150	_
48	16	125	
90	20	93	_
	24	62	
	8	150	-
	12	138	
Έλ			-
54	16	111	
	20	83	-
	24	55	-
	8	150	-
	12	125	-
60	16	100	
	20	75 .	Prog
	24	50	<u> </u>

	MATERIAL LIST						
NO.	DESCRIPTION	NOTES/SPECIFICATIONS					
	PARTS/EXTRUSIONS .						
1	SIDE JAMB FRAME/MULLION	6063-T5 ALUMINUM					
2	HEAD FRAME	6063T5 ALUMINUM					
3	SILL FRAME	6063-T5 ALUMINUM					
4	LOUVER BLADE	6063-T5 ALUMINUM					
5	BLADE SUPPORT BRACKET (2 1/2" LONG)	6063-T5 ALUMINUM					
6	MULLION CAP	6063-T5 ALUMINUM; FULL LENGTH OF MULLION JAMBS					
7	SILL PLATE	3003/5005 ALUMINUM; FULL LENGTH OF PANEL SILL					
8	L2X2X1/4 JAMB CONNECTION ANGLE 2" LONG	6063-T5 ALUMINUM; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON SHT. 2					
9	L2X2X1/4 OPTIONAL JAMB CONNECTION ANGLE 2" LONG	A36 STEEL; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON SHT. 2					
10	L2X2X1/4 CONTINUOUS MULLION CONNECTION ANGLE	6063—T5 ALUMINUM; FULL LENGTH OF CHANNEL MULLION					
11	1	A36 STEEL; 2 PER MULLION END					
12	C5X6.7 MULLION	A36 STEEL; FULL HEIGHT OF PANELS					
13	OPEN						
14	OPEN						
15	OPEN						
		FASTENERS					
16		WITH FLAT WASHERS, LOCK WASHER & NUT; 2 PER MULLION END					
17	NO. 14 S.S. SMS SCREWS	3 PER MULLION END CLIP WITH MIN. 1 1/2" WOOD EMBED					
18	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER CHANNEL END CONNECTION ANGLE INTO CONCRETE ONLY					
19		WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER CHANNEL END CONNECTION ANGLE INTO STEEL FRAME					
20		WITH FLAT WASHER, LOCK WASHER & NUT; WITHIN 4" OF MULLION ENDS & MAX. 8" O.C.					
21	NO. 14 X 1 1/4" HILTI TEK SCREW	3 AT EACH LOUVER BLADE SUPPORT BRACKET AT ARCHITECTURAL MAIN MULLIONS					
22	NO. 14 X 1 1/4" HILTI TEK SCREW	WITHIN 1 1/4" OF MULLION ENDS & MAX. 4" O.C. INTO FRAME					
23	NO. 8 X 3/4" SMS	2 PER EACH LOUVER BLADE END THROUGH JAMB & INTO BLADE SPLINES					
24	NO. 14 X 1 1/4" HILTI TEK SCREW	2 AT EACH LOUVER BLADE SUPPORT BRACKET AT ALL MIDSPAN MULLIONS					
25	NO. 14 X 1 1/4" HILTI TEK SCREW	2 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE					
26	1/2" X 2" LAG SCREW WITH FLAT WASHER	1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO WOOD FRAME					
27	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO CONCRETE ONLY					
28		WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER EA. JAMB CONNECTION ANGLE INTO STEEL FRAME					
29	NO. 8 X 3/4" SMS	2 SCREWS WITHIN 4" OF SILL PLATE ENDS & MAX. 12" O.C. (SILL PLATE TO SILL JAMB AND FIRST LOUVER BLADE)					
30	NO. 14 X 1 1/4" HILTI TEK SCREW	1 AT EACH MULLION ANGLE INTO HEAD & SILL JAMB					
31	NO. 8 X 3/4" SMS SCREWS	2 PER FRAME SILL CORNER THROUGH SILL & INTO JAMB SPLINES					
Land the state of							
PRODUCT RENEWED PRODUCT REVISED							

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se complying with the Florida

Building Code

Acceptance No [3-042] 10

Expiration Date 07/27/2018

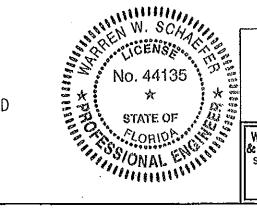
By Harry

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1. WHEN THE DAME! WILDOW

m cumplying with the Florida
Building Code
Acceptance No []-[17,1]
Esciration Date 0.7/27/2013
By Door Miarti Date Product Control

- 1. WHEN THE PANEL WIDTH IS 30" OR LESS, NO MID SPAN MULLION IS REQUIRED PROVIDING COMPLIANCE WITH THE TABLE.
- 2. ALL PRESSURES IN THIS TABLE ARE FOR BOTH POSITIVE & NEGATIVE WIND PRESSURE.



WARREN W. SCHAEFER, P.E. STRICTURAL ENGINEER P.E. No. 44135

W. W. SOHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) STRUCTURAL CONSULTING ENGINEERS 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424

DATE ORN CK APPO OWV american warming and ventilating A MESTEK COMPANY 7301 INTERNATIONAL DRIVE HOLLAND, OHIO PHONE 419-865-5000; FAX 419-865-1375 7301 INTERNATIONAL DRIVE

REVISION

LE-32 TEST LOUVER ARCHITECTURAL LOUVER SECTIONS & DETAILS

CKD,BY	APPD.BY W.W.S.	SHEET: 7 of	F 7					
DRN.BY W.W.S.	DWG. NO.	04.0	RE					
DATE 06-16-00] 316	04-6	(